AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1   1. (Currently amended) A computer-implemented method for concurrently

2   accepting parameters in at least two contexts, the method comprising:

3   accepting a keystroke sequence comprising at least one keystroke, each

4   keystroke having a first value, and at least a subset of the key-

5   strokes having a second value;

6   determining whether the keystroke sequence produces a valid result in

7   a first context;

8   responsive to the keystroke sequence producing a valid result in the

9   first context, outputting first feedback, the first feedback indicat-

10   ing keystroke input according to the first context; and

11   responsive to the keystroke sequence not producing a valid result in the

12   first context:

13   determining whether the keystroke sequence produces a valid

14   result in a second context; and

15   responsive to the keystroke sequence producing a valid result in

16   the second context, outputting second feedback, the sec-

17   ond feedback indicating keystroke input according to the

18   second context.

1   2. (Currently amended) The method of claim 1, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing a first action ~~operation~~ corresponding

4   to the first context, using the first value for each keystroke; and

5   responsive to the keystroke sequence not producing a valid result in the

6   first context and producing a valid result in the second context,

7   performing a second action corresponding to the second context,

8   using the second value for each keystroke.

1   3. (Canceled)

1   4. (Original) The method of claim 1, wherein:

2   the first feedback indicates the first value for each keystroke; and

3   the second feedback indicates the second value for each keystroke.

1   5. (Original) The method of claim 1, wherein the first feedback comprises vis-

2   ual feedback and the second feedback comprises visual feedback.

1   6. (Original) The method of claim 1, further comprising:

2   responsive to the keystroke sequence not producing a valid result in the

3   first context and in the second context, outputting an invalidity

4   indicator.

1   7. (Original) The method of claim 6, wherein outputting an invalidity indica-

2 tor comprises outputting an auditory invalidity indicator.

1   8. (Original) The method of claim 6, wherein outputting an invalidity indica-

2 tor comprises outputting a visual invalidity indicator.

1   9. (Original) The method of claim 1, wherein at least one of the contexts com-

2 prises accepting input for a directory filtering operation on a plurality of directory

3 records.

1   10. (Original) The method of claim 9, wherein the first context comprises ac-

2 cepting input for a directory filtering operation on a plurality of directory records.

1   11. (Original) The method of claim 10, wherein the directory filtering opera-

2 tion is iterative.

1   12. (Original) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the first value for each of the accepted keystrokes.

1   13. (Currently amended) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein determining whether the keystroke sequence produces a valid

6   result in a first context comprises determining whether the per-

7   formed directory filtering operation produces at least one valid

8   result for the keystroke sequence.

1   14. (Original) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein each directory record comprises contents, and wherein per-

6   forming the directory filtering operation comprises comparing

7   the keystroke sequence with the contents of at least one directory

8   record.

1   15. (Original) The method of claim 14, wherein the first feedback comprises

2   at least one matching directory record.

1   16. (Original) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein each directory record comprises at least one field value, and

6   wherein the directory filtering operation comprises comparing

7   · the keystroke sequence with at least one field value in at least

8   one directory record.

1   17. (Original) The method of claim 16, wherein the first feedback comprises

2 at least one matching directory record.

1   18. (Currently amended) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein the directory filtering operation comprises comparing the key-

6   stroke sequence[[s]] with at least two field values in at least one

7   directory record.

1   19. (Original) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein each directory record comprises at least two field values, and

6   wherein the directory filtering operation comprises comparing

7   the keystroke sequences with at least one value derived from at

8   least one field in at least one directory record.

1   20. (Currently amended) The method of claim 10, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the accepted keystrokes;

5   wherein each directory record comprises at least two field values, and

6   wherein the directory filtering operation comprises comparing

7   the keystroke sequences with at least one field value[[s]] in at

8   least one directory record and with at least one value derived

9   from at least one field in at least one directory record.

1   21. (Original) The method of claim 10, wherein the first feedback comprises

2 at least one matching directory record.

1   22. (Original) The method of claim 1, further comprising:

2   accepting an additional keystroke, the additional keystroke having at

3   least a first value;

4   appending the additional keystroke to the keystroke sequence;

5   repeating the steps of:

6   determining whether the keystroke sequence produces a valid result in

7   a first context;

8   responsive to the keystroke sequence producing a valid result in the

9   first context, outputting first feedback, the first feedback indicat-

10   ing keystroke input according to the first context;

11   responsive to the keystroke sequence not producing a valid result in the

12   first context:

13   determining whether the keystroke sequence produces a

14   valid result in a second context; and

15   responsive to the keystroke sequence producing a valid re-

16   sult in the second context, outputting second feedback,

17   the second feedback indicating keystroke input ac-

18   cording to the second context.

1   23. (Currently amended) The method of claim 1, further comprising:

2   accepting a backspace keystroke;

3   deleting a keystroke from the keystroke sequence;

4   repeating the steps of:

5   determining whether the keystroke sequence produces a valid

6   result in a first context;

7   responsive to the keystroke sequence producing a valid result in

8   the first context, outputting first feedback, the first feed-

9   back indicating keystroke input according to the first con-

10   text; and

11   responsive to the keystroke sequence not producing a valid re-

12   sult in the first context:

13   determining whether the keystroke sequence produces

14   a valid result in a second context; and

15   responsive to the keystroke sequence producing a

16   valid result in the second context, outputting

17   second feedback, the second feedback indicat-

18   ing keystroke input according to the second

19   context.

1   24. (Original) The method of claim 1, wherein at least one of the contexts

2 comprises accepting input for a direct entry operation.

1   25. (Original) The method of claim 24, wherein the first context comprises ac-

2 cepting input for a direct entry operation.

1   26. (Original) The method of claim 25, wherein the direct entry operation

2 comprises a telephone number direct entry operation.

1   27. (Original) The method of claim 25, wherein determining whether the key-

2 stroke sequence produces a valid result in a first context comprises determining

3 whether all of the accepted keystrokes have a numeric value.

1   28. (Original) The method of claim 25, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the direct entry operation using the first

4   value for each of the accepted keystrokes.

1   29. (Original) The method of claim 25, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the direct entry operation using the ac-

4   cepted keystrokes.

1   30. (Original) The method of claim 1, wherein the first context comprises ac-

2   cepting input for a directory filtering operation, and the second context comprises

3   accepting input for a direct entry operation.

1   31. (Currently amended) The method of claim 30, further comprising:

2   responsive to the keystroke sequence producing a valid result in the

3   first context, performing the directory filtering operation using

4   the first value for each of the accepted keystrokes; and

5   responsive to ~~responsive to~~ the keystroke sequence not producing a

6   valid result in the first context and producing a valid result in

7   the second context, performing the direct entry operation using

8   the second value for each of the accepted keystrokes.

1   32. (Original) The method of claim 31, wherein:

2   determining whether the keystroke sequence produces a valid result in

3   a first context comprises determining whether the performed di-

4   rectory filtering operation produces at least one valid result for

5   the accepted keystrokes; and

6   determining whether the keystroke sequence produces a valid result in

7   a second context comprises determining whether all of the ac-

8   cepted keystrokes have a numeric value.

1   33. (Original) The method of claim 1, wherein:

2   each first value comprises one selected from the group consisting of a

3   letter and a punctuation symbol; and

4   each second value comprises a number.

1   34. (Original) The method of claim 1, wherein:

2   each first value comprises one selected from the group consisting of a

3   letter and a punctuation symbol; and

4   each second value comprises one selected from the group consisting of

5   a number and a punctuation symbol.

1   35. (Original) The method of claim 1, further comprising:

2   responsive to at least one of the accepted keystrokes not being valid in

3   one of the contexts, determining that the other context is in-

4   tended.

1   36. (Original) The method of claim 1, further comprising:

2   responsive to the keystroke sequence not producing a valid result in

3   one of the contexts, performing an action using the keystroke se-

4   quence according to the other context.

1   37. (Currently amended) A computer-implemented method for concurrently

2   accepting parameters in at least two contexts, the method comprising:

3   accepting a keystroke sequence comprising at least one keystroke, each

4   keystroke having a first value, and at least a subset of the key-

5   strokes having a second value;

6   determining whether the keystroke sequence produces a valid result in

7   a first context;

8   responsive to the keystroke sequence producing a valid result in the

9   first context:[[,]]

10   outputting first feedback, the first feedback indicating keystroke

11   input according to the first context; and

12   performing a first action corresponding to the first context, using

13   the first value for each keystroke;

14   determining whether the keystroke sequence produces a valid result in

15   a second context; and

16   responsive to the keystroke sequence producing a valid result in the

17   second context:[[,]]

18   outputting second feedback, the second feedback indicating key-

19   stroke input according to the second context; and

20   performing a second action corresponding to the second context,

21   using the second value for each keystroke.

1   38. (Canceled).

1   39. (Canceled).

1   40. (Original) The method of claim 37, wherein:

2   the first feedback indicates the first value for each keystroke; and

3   the second feedback indicates the second value for each keystroke.

1   41. (Original) The method of claim 37, further comprising:

2   responsive to at least one of the accepted keystrokes being invalid in

3   one of the contexts, deleting feedback indicating keystroke input

4   according to said one of the contexts.

1   42. (Original) The method of claim 37, wherein the first feedback comprises

2   visual feedback and the second feedback comprises visual feedback.

1   43. (Original) The method of claim 42, wherein:

2   outputting the first visual feedback comprises outputting the first vis-

3   ual feedback at a first location on a display screen; and

4   outputting the second visual feedback comprises outputting the second

5   visual feedback at a second location on a display screen.

1   44. (Original) The method of claim 37, wherein the first context comprises ac-

2   cepting input for a directory filtering operation on a plurality of directory records.

1   45. (Original) The method of claim 44, wherein the directory filtering opera-

2   tion is iterative.

1   46. (Original) The method of claim 37, further comprising:

2   accepting an additional keystroke, the additional keystroke having at

3   least a first value;

4   appending the additional keystroke to the keystroke sequence;

5   repeating the steps of determining whether the keystroke sequence pro-

6   duces a valid result in a first context, and, responsive to the key-

7   stroke sequence producing a valid result in the first context, out-

8   putting first feedback, the first feedback indicating keystroke in-

9   put according to the first context; and

10   repeating the steps of determining whether the keystroke sequence pro-

11   duces a valid result in a second context, and, responsive to the

12   keystroke sequence producing a valid result in the second con-

13   text, outputting second feedback concurrently with the first

14   feedback, the second feedback indicating keystroke input ac-

15   cording to the second context.

1   47. (Original) The method of claim 37, further comprising:

2   accepting a backspace keystroke;

3   deleting a keystroke from the keystroke sequence;

4   repeating the steps of determining whether the keystroke sequence pro-

5   duces a valid result in a first context, and, responsive to the key-

6   stroke sequence producing a valid result in the first context, out-

7   putting first feedback, the first feedback indicating keystroke in-

8   put according to the first context; and

9   repeating the steps of determining whether the keystroke sequence pro-

10   duces a valid result in a second context, and, responsive to the

11   keystroke sequence producing a valid result in the second con-

12   text, outputting second feedback concurrently with the first

13   feedback, the second feedback indicating keystroke input ac-

14   cording to the second context.

1   48. (Original) The method of claim 37, wherein the first context comprises ac-

2   cepting input for a direct entry operation.

1   49. (Original) The method of claim 48, wherein the direct entry operation

2   comprises a telephone number direct entry operation.

1   50. (Original) The method of claim 48, wherein determining whether the key-

2   stroke sequence produces a valid result in the first context comprises determining

3   whether all of the accepted keystrokes have a numeric value.

1   51. (Original) The method of claim 37, wherein the first context comprises ac-

2   cepting input for a directory filtering operation, and the second context comprises

3   accepting input for a direct entry operation.

1   52. (Original) A computer-implemented method for concurrently accepting

2   parameters in at least two contexts, the method comprising:

3   a)   initiating a first string;

4   b)   accepting a keystroke;

5   c)   appending a first value of the keystroke to the first string;

6   d)   determining whether all values in the first string can be con-

7   verted to valid numeric values;

8   e)   responsive to determining that all values in the first string can be

9   converted to valid numeric values:

10   generating a numeric string corresponding to the first string; and

11   outputting first feedback comprising the numeric string;

12   f)   determining whether any directory records match the first

13   string; and

14   g)   responsive to at least one directory record matching the first

15   string, outputting second feedback comprising a list of the at

16   least one directory record matching the first string.

1   53. (Currently amended) The method of claim 52, further comprising repeat-

2   ing b) through g). [[:]]

1   54. (Original) The method of claim 52, further comprising:

2   e.1)   responsive to determining that at least one value in the first

3   string cannot be converted to a valid numeric value, deleting any

4   previously output first feedback comprising the numeric string.

1   55. (Original) The method of claim 52, further comprising:

2   g.1)   responsive to no directory records matching the first string, de-

3   leting any previously output second feedback comprising a list

4   of the at least one directory record.

1   56 to 58. (Canceled)

1   59. (Currently amended) A computer-implemented method for filtering a di-

2   rectory having a plurality of records, each record having at least two searchable

3   fields, the method comprising:

accepting a character sequence comprising at least one character, each

character having a value;

in response to each of at least a subset of the characters, iteratively fil-

tering a display of the directory by:

for each record, determining whether the character sequence

matches <u>the record by:</u>

<u>comparing the character sequence with at least two fields</u>

<u>associated with the record; and</u>

<u>designating the record as a match if the character se-</u>

<u>quence matches at least one of the fields associated</u>

<u>with the record;</u>

<u>wherein each field associated with the record comprises</u> ~~at~~

~~least a portion of at least~~ one selected from the

group consisting of:

at least one searchable field in the record;

at least one field derived from at least one field

in the record; and

at least one field generated by combining at

least two fields in the record; and

displaying at least a subset of records for which the determina-

tion indicates a match.

60 to 62. (Canceled).

63. (Currently amended) The method of claim 59, further comprising:

accepting an additional character;

appending the additional character to the character sequence;

for each displayed record, determining whether the character sequence

matches the record by:

comparing the character sequence with at least two fields

associated with the record; and

designating the record as a match if the character se-

quence matches at least one of the fields associated

with the record;

wherein each field associated with the record comprises at least

a portion of at least one selected from the group consist-

ing of:

at least one searchable field in the record;

at least one field derived from at least one field in the re-

cord; and

at least one field generated by combining at least two

fields in the record; and

for each displayed record, responsive to the character sequence not

matching, deleting the record from the display.

64. (Currently amended) The method of claim 59, further comprising:

2   accepting a backspace character;

3   deleting the last character from the character sequence;

4   for each displayed record, determining whether the character sequence

5   matches the record by:

6   comparing the character sequence with at least two fields

7   associated with the record; and

8   designating the record as a match if the character se-

9   quence matches at least one of the fields associated

10   with the record;

11   wherein each field associated with the record comprises ~~at least~~

12   ~~a portion of at least~~ one selected from the group consist-

13   ing of:

14   at least one searchable field in the record;

15   at least one field derived from at least one field in the re-

16   cord; and

17   at least one field generated by combining at least two

18   fields in the record; and

19   displaying at least a subset of records for which determination indicates

20   a match.

1   65. (Original) A computer-implemented method for filtering a directory hav-

2 ing a plurality of records, each record having at least two searchable fields, the

3 method comprising:

4   accepting a character sequence comprising at least one character, each

5   character having a value;

6   filtering a directory based on comparison of the accepted character se-

7   quence with at least two searchable fields; and

8   displaying at least a subset of the filtered directory.

1   66. (Original) A system for concurrently accepting parameters in at least two

2 contexts, the system comprising:

3   a character input device comprising a plurality of character input de-

4   vice elements, each character input device element having a first

5   value, and at least a subset of the character input device ele-

6   ments having a second value;

7   a buffer, coupled to the character input device, for storing a keystroke

8   sequence entered on the character input device, the keystroke

9   sequence comprising at least one keystroke;

10   a string handler, coupled to the buffer, for determining whether the

11   keystroke sequence produces a valid result in a first context and

12   for determining whether all of the keystrokes are valid in a sec-

13   ond context;

14   an output device, coupled to the string handler, for:

15   responsive to the keystroke sequence producing a valid result in the

16   first context, outputting first feedback, the first feedback indicat-

17   ing keystroke input according to the first context; and

18   responsive to the keystroke sequence not producing a valid result in the

19   first context and producing a valid result in the second context,

20   outputting second feedback, the second feedback indicating key-

21   stroke input according to the second context.

1   67. (Original) The system of claim 66, further comprising:

2   a directory lookup engine, coupled to the string handler, for, respon-

3   sive to the keystroke sequence producing a valid result in the

4   first context, retrieving a telephone number from a directory re-

5   cord identified by the first value for each keystroke; and

6   a dialer, coupled to the directory lookup engine, for, responsive to the

7   keystroke sequence producing a valid result in the first context,

8   dialing the retrieved telephone number.

1   68. (Original) The system of claim 66, further comprising:

2   a dialer, coupled to the string handler, for, responsive to the keystroke

3   sequence not producing a valid result in the first context and

4   producing a valid result in the second context, dialing a tele-

5   phone number specified by the second value for each keystroke.

1   69. (Original) The system of claim 66, wherein:

2   the output device comprises a display screen;

3   the character input device comprises a keyboard; and

4   each character input device element comprises a key.

1   70. (Original) The system of claim 66, further comprising:

2   a second output device, coupled to the string handler, for, responsive to

3   the keystroke sequence not producing a valid result in the first

4   context and not producing a valid result in the second context,

5   outputting an invalidity indicator.

1   71. (Original) The system of claim 70, wherein the second output device

2 comprises at least one selected from:

3   an auditory output device; and

4   a visual output device.

1   72. (Original) The system of claim 66, wherein, responsive to the keystroke

2 sequence not producing a valid result in the first context and not producing a valid

3 result in the second context, the output device outputs an invalidity indicator.

1   73. (Original) The system of claim 66, wherein the first context comprises ac-

2 cepting input for an iterative directory filtering operation on a plurality of directory

3 records.

1   74. (Original) The system of claim 73, further comprising:

2   a directory filter, coupled to the string handler, for, responsive to the

3   keystroke sequence producing a valid result in the first context,

4   performing the directory filtering operation using the first value

5   for each of the stored keystrokes.

1   75. (Original) The system of claim 66, wherein at least one of the contexts

2 comprises accepting input for a direct entry operation.

1   76. (Original) The system of claim 75, wherein the first context comprises ac-

2 cepting input for a direct entry operation.

1   77. (Original) The system of claim 76, wherein the direct entry operation

2 comprises a telephone number direct entry operation.

1   78. (Original) The system of claim 66, wherein the first context comprises ac-

2 cepting input for a directory filtering operation, and the second context comprises

3 accepting input for a direct entry operation.

1   79. (Original) The system of claim 66, wherein:

2   each first value comprises one selected from the group consisting of a

3   letter and a punctuation symbol; and

4   each second value comprises a number.

1   80. (Original) The system of claim 66, wherein:

2   each first value comprises one selected from the group consisting of a

3   letter and a punctuation symbol; and

4   each second value comprises one selected from the group consisting of

5   a number and a punctuation symbol.

1   81. (Original) The system of claim 66, wherein:

2   responsive to at least one of the keystrokes not being valid in one of the

3   contexts, the string handler determines that the other context is

4   intended.

1   82. (Currently amended) A system for concurrently accepting parameters in

2 at least two contexts, the system comprising:

3   a character input device comprising a plurality of character input de-

4   vices, each character input device having a first value, and at

5   least a subset of the character input devices having a second

6   value;

7   a buffer, coupled to the character input device, for storing a keystroke

8   sequence entered on the character input device, the keystroke

9   sequence comprising at least one keystroke;

10   a string handler, coupled to the buffer, for determining whether the

11   keystroke sequence produces a valid result in a first context and

12   for determining whether all of the keystrokes are valid in a sec-

13   ond context;

14   an output device, coupled to the string handler, for:

15   responsive to the keystroke sequence producing a valid result in the

16   first context, outputting first feedback, the first feedback indicat-

17   ing keystroke input according to the first context; and

18   responsive to the keystroke sequence producing a valid result in the

19   second context, outputting second feedback concurrently with

20   the first feedback, the second feedback indicating keystroke in-

21   put according to the second context;

22   wherein, responsive to the keystroke sequence producing a valid result

23   in the first context, the system performs a first action corre-

24   sponding to the first context, using the first value for each key-

25   stroke; and

26   wherein, responsive to the keystroke sequence producing a valid result

27   in the second context, the system performs a second action cor-

28   responding to the second context, using the second value for

29   each keystroke.

1   83. (Original) The system of claim 82, wherein:

2   the output device comprises a display screen;

3   the character input device comprises a keyboard; and

4   each character input device element comprises a key.

1   84. (Original) The system of claim 83, wherein the display screen outputs the

2   first visual feedback at a first location and outputs the second visual feedback at a

3   second location.

1   85. (Original) The system of claim 82, wherein the first context comprises ac-

2   cepting input for an iterative directory filtering operation on a plurality of directory

3   records.

1   86. (Original) The system of claim 82, wherein at least one of the contexts

2   comprises accepting input for a direct entry operation.

1   87. (Original) The system of claim 86, wherein the first context comprises ac-

2   cepting input for a direct entry operation.

1   88. (Original) The system of claim 87, wherein the direct entry operation

2   comprises a telephone number direct entry operation.

1   89. (Original) The system of claim 82, wherein the first context comprises ac-

2   cepting input for a directory filtering operation, and the second context comprises

3   accepting input for a direct entry operation.

1   90. (Original) A system for concurrently accepting parameters in at least two

2   contexts, the system comprising:

3   a character input device, for accepting a keystroke;

4   a buffer, coupled to the character input device, for initiating a first

5   string and for appending a first value of the keystroke to the first

6   string;

7   a string handler, coupled to the buffer, for determining whether all val-

8   ues in the first string can be converted to valid numeric values;

9   a numeric string generator, coupled to the string handler, for, respon-

10   sive to all values in the first string being convertible to valid nu-

11   meric values, generating a numeric string corresponding to the

12   first string;

13   a directory lookup engine, coupled to the string handler, for, determin-

14   ing whether any directory records match the first string; and

15   an output device, coupled to the numeric string generator and to the di-

16   rectory lookup engine, for:

17   responsive to at least one directory record matching the first string,

18   outputting first feedback comprising a list of the at least one

19   directory record matching the first string; and

20   responsive to no directory records matching the first string and all

21   values in the first string being convertible to valid numeric

22   values, , outputting second feedback comprising the numeric

23   string.

1   91. (Original) The system of claim 90, wherein:

2   responsive to at least one directory record matching the first string

3   and all values in the first string being convertible to valid

4   numeric values, the output device outputs first feedback

5   comprising a list of the at least one directory record matching

6   the first string and concurrently outputs second feedback

7   comprising the numeric string.

1   92 to 94. (Canceled)

1   95. (Currently amended) A directory filtering system, comprising:

2   a directory having a plurality of records, each record having at least

3   two searchable fields;

4   a character input device comprising a plurality of character input de-

5   vice elements, each character input device element having at

6   least one value;

7   a buffer, coupled to the character input device, for storing a character

8   sequence entered on the character input device, the character se-

9   quence comprising at least one character;

10   a directory lookup engine, coupled to the directory and to the

11   buffer, for, for each record, determining whether the

12   character sequence matches the record by:

13   comparing the character sequence with at least two fields

14   associated with the record; and

15   designating the record as a match if the character se-

16   quence matches at least one of the fields associated

17   with the record;

18   wherein each field associated with the record comprises at least a por-

19   ~~tion of at least~~ one selected from the group consisting of:

20   at least one searchable field in the record;

21   at least one field derived from at least one field in the re-

22   cord; and

23   at least one field generated by combining at least two

24   fields in the record; and

25   an output device, coupled to the directory lookup engine, for display-

26   ing at least a subset of records for which the determination indi-

27   cates a match.

1   96 to 98. (Canceled).

1   99. (Original) The system of claim 95, wherein:

2   the output device comprises a display screen;

3   the character input device comprises a keyboard; and

4   each character input device element comprises a key.

1   100. (Original) A system for filtering a directory having a plurality of records,

2   each record having at least two searchable fields, the system comprising:

3   a character input device, for accepting a character sequence comprising

4   at least one character, each character having a value;

5   a directory filter, coupled to the character input device, for filtering a

6   directory based on comparison of the accepted character se-

7   quence with at least two searchable fields; and

8   a display, coupled to the directory filter, for displaying at least a subset

9   of the filtered directory.

1   101. (Original) The system of claim 100, wherein the character input device

2 comprises a keyboard.

1   102. (Currently amended) A computer program product comprising a com-

2 puter-usable medium having computer-readable code embodied therein for concur-

3 rently accepting parameters in at least two contexts, the computer program product

4 comprising:

5   computer-readable program code configured to cause a computer to

6   accept a keystroke sequence comprising at least one keystroke,

7   each keystroke having a first value, and at least a subset of the

8   keystrokes having a second value;

9   computer-readable program code configured to cause a computer to

10   determine whether the keystroke sequence produces a valid re-

11   sult in a first context;

12   computer-readable program code configured to cause a computer to,

13   responsive to the keystroke sequence producing a valid result in

14   the first context, output first feedback, the first feedback indicat-

15   ing keystroke input according to the first context; and

16   computer-readable program code configured to cause a computer to,

17   responsive to the keystroke sequence not producing a valid re-

18   sult in the first context:

19   determine whether the keystroke sequence produces a valid re-

20   sult in a second context; and

21   responsive to the keystroke sequence producing a valid result in

22   the second context, output second feedback, the second

23   feedback indicating keystroke input according to the sec-

24   ond context.

1   103. (Original) The computer program product of claim 102, wherein the first

2   context comprises accepting input for an iterative directory filtering operation on a

3   plurality of directory records.

1   104. (Original) The computer program product of claim 103, further compris-

2   ing:

3   computer-readable program code configured to cause a computer to,

4   responsive to the keystroke sequence producing a valid result in

5   the first context, perform the directory filtering operation using

6   the first value for each of the accepted keystrokes.

1   105. (Original) The computer program product of claim 102, wherein at least

2   one of the contexts comprises accepting input for a direct entry operation.

1   106. (Original) The computer program product of claim 105, wherein the first

2   context comprises accepting input for a telephone number direct entry operation.

1   107. (Original) The computer program product of claim 102, wherein the

2   computer-readable program code configured to cause a computer to determine

3   whether the keystroke sequence produces a valid result in a first context comprises

4   computer-readable program code configured to cause a computer to determine

5   whether all of the accepted keystrokes have a numeric value.

1   108. (Original) The computer program product of claim 102, wherein the first

2   context comprises accepting input for a directory filtering operation, and the second

3   context comprises accepting input for a direct entry operation.

1   109. (Original) The computer program product of claim 102, further compris-

2   ing:

3   computer-readable program code configured to cause a computer to,

4   responsive to at least one of the accepted keystrokes not being

5   valid in one of the contexts, determine that the other context is

6   intended.

1   110. (Original) The computer program product of claim 102, further compris-

2   ing:

3   computer-readable program code configured to cause a computer to,

4   responsive to the keystroke sequence not producing a valid re-

5   sult in one of the contexts, perform an action using the keystroke

6   sequence according to the other context.

1   111. (Currently amended) A computer program product comprising a com-

2   puter-usable medium having computer-readable code embodied therein for concur-

3   rently accepting parameters in at least two contexts, the computer program product

4   comprising:

5   computer-readable program code configured to cause a computer to

6   accept a keystroke sequence comprising at least one keystroke,

7   each keystroke having a first value, and at least a subset of the

8   keystrokes having a second value;

9   computer-readable program code configured to cause a computer to

10   determine whether the keystroke sequence produces a valid re-

11   sult in a first context;

12   computer-readable program code configured to cause a computer to,

13   responsive to the keystroke sequence producing a valid result in

14   the first context, output first feedback, the first feedback indicat-

15   ing keystroke input according to the first context, and to perform

16   a first action corresponding to the first context, using the first

17   value for each keystroke;

18   computer-readable program code configured to cause a computer to

19   determine whether the keystroke sequence produces a valid re-

20   sult in a second context; and

21   computer-readable program code configured to cause a computer to,

22   responsive to the keystroke sequence producing a valid result in

23   the second context, output second feedback, the second feedback

24   indicating keystroke input according to the second context, and

25   to perform a second action corresponding to the second context,

26   using the second value for each keystroke.

1   112. (Original) The computer program product of claim 111, wherein:

2   the computer-readable program code configured to cause a computer

3   to output the first visual feedback comprises computer-readable

4   program code configured to cause a computer to output the first

5   feedback at a first location on a display screen; and

6   the computer-readable program code configured to cause a computer

7   to output the second visual feedback comprises computer-

8   readable program code configured to cause a computer to out-

9   put the second feedback at a second location on a display screen.

1   113. (Original) The computer program product of claim 111, wherein the first

2   context comprises accepting input for an iterative directory filtering operation on a

3   plurality of directory records.

1   114. (Original) The computer program product of claim 111, wherein the first

2   context comprises accepting input for a telephone number direct entry operation.

1   115 to 117. (Canceled)

1   118. (Currently amended) A computer program product comprising a com-

2   puter-usable medium having computer-readable code embodied therein for filtering

3   a directory having a plurality of records, each record having at least two searchable

4   fields, the computer program product comprising:

5   computer-readable program code configured to cause a computer to

6   accept a character sequence comprising at least one character,

7   each character having a value;

8   computer-readable program code configured to cause a com-

9   puter to, for each record, determine whether the character

10   sequence matches the record by:

11   comparing the character sequence with at least two fields

12   associated with the record; and

13   designating the record as a match if the character se-

14   quence matches at least one of the fields associated

15   with the record;

16   wherein each field associated with the record comprises at least a por-

17   tion of at least one selected from the group consisting of:

18   at least one searchable field in the record;

19   at least one field derived from at least one field in the record;

20   and

21   at least one field generated by combining at least two fields in

22   the record; and

23   computer-readable program code configured to cause a computer to

24   display at least a subset of records for which the determination

25   indicates a match.

1   119. (Original) A computer program product comprising a computer-usable

2   medium having computer-readable code embodied therein for filtering a directory

3   having a plurality of records, each record having at least two searchable fields, the

4   computer program product comprising:

5   computer-readable program code configured to cause a computer to

6   accept a character sequence comprising at least one character,

7   each character having a value;

8   computer-readable program code configured to cause a computer to fil-

9   ter a directory based on comparison of the accepted character

10   sequence with at least two searchable fields; and

11   computer-readable program code configured to cause a computer to

12   display at least a subset of the filtered directory.

1   120. (New) The method of claim 1, wherein accepting a keystroke sequence

2   comprises accepting a keystroke sequence entered via a QWERTY keyboard having a

3   plurality of keys, wherein a subset of the keys have secondary numeric values.

1   121. (New) The method of claim 120, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   122. (New) The method of claim 37, wherein accepting a keystroke sequence

2   comprises accepting a keystroke sequence entered via a QWERTY keyboard having a

3   plurality of keys, wherein a subset of the keys have secondary numeric values.

1   123. (New) The method of claim 122, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   124. (New) The method of claim 52, wherein accepting a keystroke comprises

2   accepting a keystroke entered via a QWERTY keyboard having a plurality of keys,

3   wherein a subset of the keys have secondary numeric values.

1   125. (New) The method of claim 124, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   126. (New) The method of claim 59, wherein accepting a character sequence

2   comprises accepting a character sequence entered via a QWERTY keyboard having a

3   plurality of keys, wherein a subset of the keys have secondary numeric values.

1   127. (New) The method of claim 126, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   128. (New) The method of claim 65, wherein accepting a character sequence

2   comprises accepting a character sequence entered via a QWERTY keyboard having a

3   plurality of keys, wherein a subset of the keys have secondary numeric values.

1   129. (New) The method of claim 128, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   130. (New) The system of claim 66, wherein the character input device com-

2   prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys

3   have secondary numeric values.

1   131. (New) The system of claim 130, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   132. (New) The system of claim 82, wherein the character input device com-

2   prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys

3   have secondary numeric values.

1   133. (New) The system of claim 132, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   134. (New) The system of claim 90, wherein the character input device com-

2   prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys

3   have secondary numeric values.

1   135. (New) The system of claim 134, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   136. (New) The system of claim 95, wherein the character input device com-

2   prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys

3   have secondary numeric values.

1   137. (New) The system of claim 136, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   138. (New) The system of claim 100, wherein the character input device com-

2   prises a QWERTY keyboard having a plurality of keys, wherein a subset of the keys

3   have secondary numeric values.

1   139. (New) The system of claim 138, wherein the subset of the keys having

2   secondary numeric values are arranged according to a numeric keypad layout.

1   140. (New) The computer program product of claim 102, wherein the com-

2   puter-readable program code configured to cause a computer to accept a keystroke

3   sequence comprises computer-readable program code configured to cause a com-

4   puter to accept a keystroke sequence from a QWERTY keyboard having a plurality of

5   keys, wherein a subset of the keys have secondary numeric values.

1   141. (New) The computer program product of claim 140, wherein the subset

2   of the keys having secondary numeric values are arranged according to a numeric

3   keypad layout.

1   142. (New) The computer program product of claim 111, wherein the com-

2   puter-readable program code configured to cause a computer to accept a keystroke

3   sequence comprises computer-readable program code configured to cause a com-

4   puter to accept a keystroke sequence from a QWERTY keyboard having a plurality of

5   keys, wherein a subset of the keys have secondary numeric values.

1   143. (New) The computer program product of claim 142, wherein the subset

2   of the keys having secondary numeric values are arranged according to a numeric

3   keypad layout.

1   144. (New) The computer program product of claim 102, wherein the com-

2   puter-readable program code configured to cause a computer to accept a character

3   sequence comprises computer-readable program code configured to cause a com-

4   puter to accept a character sequence from a QWERTY keyboard having a plurality of

5   keys, wherein a subset of the keys have secondary numeric values.

1   145. (New) The computer program product of claim 144, wherein the subset

2   of the keys having secondary numeric values are arranged according to a numeric

3   keypad layout.

1   146. (New) The computer program product of claim 119, wherein the com-

2   puter-readable program code configured to cause a computer to accept a character

3   sequence comprises computer-readable program code configured to cause a com-

4   puter to accept a character sequence from a QWERTY keyboard having a plurality of

5   keys, wherein a subset of the keys have secondary numeric values.

1   147. (New) The computer program product of claim 146, wherein the subset

2   of the keys having secondary numeric values are arranged according to a numeric

3   keypad layout.